Engineering Note: EN0059 Hydro-Mix VII Sensor Factory Default Parameters

Summary: Hydro-Mix VII Sensor Factory Default Parameters

Products affected: Hydro-Mix VII, Model Number HM07

Revision Date: December 2013 Author: P Rogers / A Smith

This Engineering Note lists the parameter values that should be used to restore the Hydro-Mix VII (HM07) units back to the factory default settings.

This table applies only to HM07 sensors that have the following firmware versions.
HM07 Software HS0089 Version 1.00 or later and HS0077 v2.09 and v2.10

Parameter	Standard Default	
Input/output configuration		
Output type	0-20mA (0-10V)	
Output variable 1	Filtered Unscaled	
Output variable 2	Material Temp	
High %	20.00	
Low %	00.00	
Input Use 1	Moisture/Temp	
Input/output Use 2	Unused	
Signal processing configuration		
Unscaled Type	Frequency/Standard Mode	
Unscaled 2 Type	External Angle/Mode E	
Smoothing time	7.5	
Slew rate +	Light	
Slew rate -	Light	
Digital Signal Processing	Unused	
Material calibration	***Moisture***	
A	0.0000	
B	0.2857	
C	-4.0000	
SSD	0.00	
Averaging configuration		
Average hold delay	0 sec	
High limit (m%)	30.00	
Low limit (m%)	0.00	
High limit (us)	100.00	
Low limit (us)	0.00	
Temperature compensation		
	Freq. Co	Ampl. Co
Electronics temp. coeff	-0.0035	-0.15
Resonator temp. coeff	Set by test	Set by test
Material temp. coeff	0.00000	0.00000

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This table applies only to HM07 sensors that have the following firmware versions.
HM07 Software HS0077, all versions except v2.09 and 2.10

Parameter	Standard Default	
Input/output configuration		
Output type	0-20mA (0-10V)	
Output variable 1	Filtered Unscaled	
Output variable 2	Material Temp	
High %	20.00	
Low %	00.00	
Input Use 1	Mois./Temp	
Input/output Use 2	Unused	
Signal processing configuration		
Unscaled Type	Frequency/Standard Mode	
Unscaled 2 Type	External Angle/Mode E	
Smoothing time	7.5	
Slew rate +	Light	
Slew rate -	Light	
Digital Signal Processing	Unused	
Material calibration	***Moisture***	
A	0.0000	
B	0.2857	
C	-4.0000	
SSD	0.00	
Averaging configuration		
Average hold delay	0 sec	
High limit (m%)	30.00	
Low limit (m%)	0.00	
High limit (us)	100.00	
Low limit (us)	0.00	
Temperature compensation		
	Freq. Co	Ampl. Co
Electronics temp. coeff	0.0022	0.3000
Resonator temp. coeff	0.015	-0.4
Material temp. coeff	0.00000	0.00000

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